In the Abstract

Please amend the Abstract as follows:

A method is disclosed for designing two separable filters, *LPP* & *HPP*, that~~, when applied in sequence with a subtraction step,~~ approximates the circularly symmetric frequency response achievable using a non-separable filter. The method ~~of the present invention comprising: First, (a) selecting~~ selects a cut-off frequency and ~~designing designs~~ therefrom a 1-D low pass filter ~~LP such that: LP = [X_n, X_{(n-1)}, ... X_0, ... X_{n-1}, X_n].~~ Next, ~~(b)~~ the method obtains ~~obtaining~~ a low pass 2-D filter *LPP* ~~by performing the operation: LP* X LP; wherein LP* is a column vector having the same entries as LP and LPP having dimensions given by: {2n+1, 2n+1};~~ and ~~generating~~ generates a 2-D contour plot therefor. The method designs ~~Next, (c) designing~~ a 1-D high pass filter ~~HP such that: HP = [Y_-m, Y_{(m-1)}, ... Y_0, ... Y_{m-1}, Y_m].~~ ~~Next, (d) obtaining~~ and obtains a 2-D high pass filter *HPP* ~~by performing the operation: HP* X HP; wherein HP* is a column vector having the same entries as HP and HPP having dimensions: {2m+1, 2m+1}~~ and ~~obtaining~~ a 2-D contour plot therefor. A ~~Next, (e) repeating (c) through (d) until the 2-D contour plot of HPP overlaps the 2-D contour plot of LPP. Next, (f) generating a~~ 2-D filter is generated ~~ONE~~ having the dimensions of ~~that of~~ the 2-D high pass filter *HPP* with the only non-zero entry of value 1 located at the center ~~of ONE~~. A ~~Next, (g) creating~~ matrix is created *HPPinv* ~~by~~ subtracting the 2-D high pass filter *HPP* from the 2-D filter ~~ONE~~. The low pass 2-D filter is convolved ~~Next, (h) convolving LPP~~ with *HPPinv* the matrix to obtain *DSCRN* ~~having dimensions: {2m+2n+1, 2m+2n+1}; and obtaining a 2-D contour plot therefor. Next, (i) repeating (a) through (h) until, by an examination of the 2-D contour plot of DSCRN,~~ an approximation to a desired circular symmetry ~~is achieved~~.